



Australian Government



POSITION DESCRIPTION

Position Title:	Safety & Reliability Senior Advisor (Nuclear Waste)
Cluster / Business Unit / Division	ANSTO Maintenance and Engineering (AME)
Section or Unit:	Systems Safety & Reliability
Classification:	Band 7
Position Description Number:	PD-2233
Work Contract Type:	Professional
STEMM/NON-STEMM:	STEMM

POSITION PURPOSE

The primary objective of the Safety & Reliability Senior Advisor is to take a leading role in the delivery of services undertaken by the section, including the application and development of risk and reliability engineering techniques and the provision of sound technical advice and leadership in systems, plant and process safety, regulatory compliance, and independent review of safety assessments to support ANSTO's strategic direction.

ORGANISATIONAL ENVIRONMENT

ANSTO is the national organisation for nuclear science and technology. We focus on undertaking leading edge research, delivering innovative scientific services, and providing specialised advice to government, industry, academia, and other research organisations. We partner with scientists and engineers and apply new technologies to provide real-world benefits. Our work improves human health, saves lives, builds our industries, and protects the environment. ANSTO is the home of Australia's most significant landmark and national infrastructure for research.

ANSTO Maintenance and Engineering (AME), Systems Safety and Reliability provides comprehensive technical safety and reliability assessments, reviews of plant, systems and processes, and support for both commercial and research areas of the organisation internally and externally. The section also advises and assists clients on compliance and regulatory requirements in relation to the safe management of Australia's radioactive waste.

POSITION ENVIRONMENT

The Senior Systems Safety and Reliability Advisor, Nuclear Waste is a subject matter expert in nuclear waste management, and reports to the Manager, Systems Safety & Reliability. Although the position has no direct reports the role will undertake nuclear waste leadership roles within the Unit with a strong focus on the supervision and guidance of divisional team members including engineers and technical staff. Part of the long-term strategy is to provide and be recognised as an expert in Nuclear Waste Safety Management and to provide high level consultancy to entities such as the Australian Radioactive Waste Agency (ARWA).

ARWA is the newly established agency set up to provide policy and technical expertise on radioactive waste management and deliver the National Radioactive Waste Management Facility (NRWMF).

The position holder also provides advice to internal clients and management regarding a range of safety and reliability activities around the safe management of radioactive waste and cultivates relationships with stakeholders and clients outside ANSTO in the delivery of commercial and collaborative services and regulatory bodies.

ACCOUNTABILITIES & RESPONSIBILITIES

Key Accountabilities

The key accountabilities for this position include:

- Provide expert advice and lead in the preparation, presentation and delivery of nuclear waste safety assessments, and Safety Cases for ANSTO's Nuclear Waste installations and other controlled facilities.
- Utilise specialist knowledge and technical expertise to provide expert systems safety analysis and advice on nuclear waste management to internal and external agencies, lead proposed changes and solutions to engineering safety systems.
- Develop and review engineering and technical documentation and develop position papers that support the requirements of the client (ARWA), external regulatory authorities (ARPANSA, Comcare) and for submission to the ANSTO's Safety and Reliability Assurance process.
- Manage, lead, conduct and review safety analyses using a range of internationally accepted techniques in hazard identification, reliability, and risk analysis.
- Develop international networks to allow for external collaboration and sharing of information.
- Take a leading role in the development and maintenance of ANSTO's safety management through developing policy and operational procedures relating to safety systems.
- Communicate effectively with customers and other stakeholders ensuring clarity, accuracy of information and confidentiality requirement whilst ensuring a high level of customer satisfaction.
- Undertake research and investigations and lead policy development to contribute to the improvement of ANSTO safety management processes and safety culture.
- Undertake risk management, cost, and benefits of proposed solutions, seek new solutions and develop new techniques and methods.
- As a senior member of the team, make a significant contribution to the development and application of policies and principles for effective and efficient operation of the team and in the wider ANSTO context.
- Assist the Manager SSR in section operations such as planning, organising, monitoring progress, and providing technical guidance and advice on projects; assisting in recruiting; and business planning and budgeting.
- Provide technical guidance, support, coaching, developing, mentoring, and supervising less experienced staff in the section.
- Network with other relevant professional groups, both within ANSTO and outside, to maintain good working relationships and to promote business, collaborative and stakeholder interests and prospects.
- Utilise technical skills and regulatory experience to consider and evaluate situations and recommend or implement options whilst ensuring that activities in relation to licensing and regulation and safety and reliability services are met.
- Manage, lead, conduct and review safety analyses using a range of internationally accepted techniques in hazard identification, reliability, and risk analysis.
- Advise and assist in the implementation of safety improvements and implement changes to safety management systems.

Decision Making

- The position works within a framework of legislation, policies, professional standards, and resource parameters. Within this framework the position has some independence in determining how to achieve objectives of the unit, including deciding on methods and approaches, operations, project planning and allocation of resources.
- The position is fully accountable for the accuracy, integrity, and quality of the content of his/her work provided and is required to ensure that decisions are based on sound evidence, but at times may be

required to make effective judgements under pressure or in the absence of complete information or expert advice.

- The levels of authority delegated to this position are those approved and issued by the Chief Executive Officer. All delegations will be in line with the ANSTO Delegation Manual AS-1682 (as amended or replaced).

Key Challenges

The major challenges for this position include:

- Ability to quickly and fully understand the technical complexities of specific ANSTO or external facilities, processes and activities and assess the safety implications of proposed changes to these and to develop options for improvement.
- Ability to advise promptly and influentially when safety or licensing aspects are considered inadequate, whilst understanding the cost and other implications of the advice.
- Understand regulatory environment and the specific regulatory requirements and to develop and utilise relationships with regulator(s) effectively.
- Overseeing the work of others to deliver results to agreed requirements, budget and schedule.

KEY RELATIONSHIPS

Who	Purpose
Internal	
Manager/Executive	<ul style="list-style-type: none"> • Receive guidance and direction • Provide expert, authoritative and evidence-based advice • Staff engagement and quality recruitment • Negotiate and report on budgets and resources consistent with strategic plans and goals • Recommend and gain endorsement for plans and goals and other initiatives
Work area team members	<ul style="list-style-type: none"> • Provide expert advice and analysis on a full range of matters • Contribute to group decision making processes, planning and goals • Collaborate and share accountability • Negotiate and resolve conflicts
Indirect Reports (project team)	<ul style="list-style-type: none"> • Provide leadership, guidance and support • Set performance requirements and manage performance and development (where appropriate) • Leads and engages to monitor trends, performance and progress for projects and evaluate further support which may be required to ensure project delivery
Other departments	<ul style="list-style-type: none"> • Develop relationships with Clients and staff in all areas of ANSTO to facilitate successful delivery of AME projects
External	
Regulators	<ul style="list-style-type: none"> • Work within agreed conditions of external regulators including ARPANSA and the TGA when required
Agencies and consultants	<ul style="list-style-type: none"> • ARWA (Australian Radioactive Waste Agency), IAEA, CSIRO, AECOM, Jacobs as and when engaged

POSITION DIMENSIONS

Staff Data	
Reporting Line	Reports to the Systems Safety and Reliability Manager
Direct Reports	Nil
Indirect Reports	Will be assigned and will vary according to the size and skillset required by the project.

Financial Data (2022/2023)	
Revenue / Grants	Nil
Operating Budget	Nil
Staffing Budget	Nil
Capital Budget	Nil
Assets	Nil

Special / Physical Requirements	
Location:	Lucas Heights Working in different areas of designated site/campus as needed
Travel:	May be required to travel to different ANSTO sites and new NRWMF (interstate) from time to time May be required to travel both internationally and nationally
Physical:	Office based physical requirements (sitting, standing, minimal manual handling, movement around office and site, extended hours working at computer) Public speaking
Radiation areas:	May be required to work in radiation areas under tightly regulated conditions
Hours:	Willingness to work extended and varied hours based on operational requirements After hours work may be required for short and infrequent periods
Clearance requirements:	Satisfy ANSTO Security and Medical clearance requirements Obtain and maintain appropriate federal government clearance

Workplace Health & Safety	
Specific role/s as specified in <u>AP-2362</u> of the ANSTO WHS Management System	All Workers Managers / Leaders / Supervisors Other specialised roles identified within the guideline a position holder may be allocated to in the course of their duties

ORGANISATIONAL CHART

This role reports to the Nuclear Operations Portfolio within ANSTO Maintenance & Engineering. There are no direct reports but indirect reports may be allocated based on the project or work.

KNOWLEDGE, SKILLS AND EXPERIENCE

1. Engineering Degree Qualification acceptable to the Institute of Engineers Australia
2. Eligible for corporate membership of Institute of Engineers Australia.
3. Significant experience in risk assessments, deterministic safety analysis and probabilistic safety analysis and safety management systems.
4. Proven problem-solving ability in delivering creative and systematic solutions.
5. Demonstrated ability to lead assignments and utilise project management methodologies to deliver quality and fit-for-purpose outcomes.
6. Demonstrated leadership skills.
7. Experience in stakeholder and customer management.
8. Technical skills including computing skills and analytical skills.
9. Expert knowledge of systems safety and reliability engineering and working knowledge of nuclear, radiological, and industrial safety.

VERIFICATION

This section verifies that the line manager and appropriate senior manager/executive confirm that this is a true and accurate reflection of the position.

Line Manager		Delegated Authority	
Name:	Irene Martin	Name:	Con Lyras
Title:	Manager, Systems Safety & Reliability	Title:	Group Executive Capital Programs & Chief Engineer
Signature:		Signature:	
Date:	09/06/2022	Date:	